

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/988,048	11/16/2001	Hikaru Kameyoshi	086142-0494	7951
22428	7590 03/05/2003			
FOLEY AND LARDNER SUITE 500 3000 K STREET NW			EXAMINER	
			KIM, SANG K	
WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			3654	
			DATE MAILED: 03/05/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			0
	Applicati n No.	Applicant(s)	
4 055 4.41 0	09/988,048	KAMEYOSHI ET AL.	
• Office Action Summary	Examiner	Art Unit	
	SANG KIM	3654	
The MAILING DATE of this communication app Peri df r Reply	ears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may within the statutory minimum of vill apply and will expire SIX (6) M cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 22 J	anuary 2003 .		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.	•	
3) Since this application is in condition for allowa			
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935	J.D. 11, 453 O.G. 213.	
4)⊠ Claim(s) <u>1,3,5-7 and 9-11</u> is/are pending in the	e application.		
4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,3,5-7 and 9-11</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers	_		
9) The specification is objected to by the Examine		w the Everyiner	
10) The drawing(s) filed on is/are: a) acception a			
11) The proposed drawing correction filed on			
If approved, corrected drawings are required in re			
12) The oath or declaration is objected to by the Ex	•		
Priority under 35 U.S.C. §§ 119 and 120		•	
13)⊠ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.	C. § 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:	•		-
1. Certified copies of the priority document	s have been received.		
2. Certified copies of the priority document	s have been received in	Application No	
 3. Copies of the certified copies of the prior application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domesti	•		
a) The translation of the foreign language pro			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)	

'Application/Control Number: 09/988,048

Art Unit: 3654

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5-7, and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizuno, U.S. Patent No. 6419176 B1, in view of Scheel et al, U.S. Patent No. 6073874.

Referring to claims 1, 3, 5-7, and 9-11, Mizuno shows a gas generator 15, a plurality of serial balls 20 which will be accerlated by the gas from the gas generator; a path for guiding the balls, and a rotational member 30 having a plurality of driving points 32 wherein said balls collide with said driving points so as to apply rotational torque to said rotatable member; wherein the driving points of said rotational member are partially positioned within said path, and wherein a space for passage of said balls is defined by said path and said driving points and is narrower than the diameter of said balls, wherein the pretensioner is configured so that a wall of the pipe 21j opposite the opening is elastically deformed by at least one of the balls during rotation of the gear as shown in Fig. 18 and as described in column 20, lines 19-62.

Mizuno does not disclose the surfaces of said balls and an interior surface of the pipe are applied with lubrication coating.

Scheel et al teach the surface of said balls and an interior surface of the pipe are applied with lubrication coating as described on column 4, lines 18-28, and Fig. 2.

Application/Control Number: 09/988,048

Art Unit: 3654

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Mizuno and apply lubrication coating to the balls and interior surface of the pipe as taught by Scheel et al to reduce friction between the pipe and the balls.

Response to Arguments

Applicant's arguments filed on 1/22/2003 have been fully considered but are not persuasive with respect to claims 1, 3, 5-7, and 9-11.

Applicant's arguments with respect to claims 1, 3, 5-7, and 9-11 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references of record show other example of seat belt retractor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sang Kim whose telephone number is (703) 305-3712. The examiner can normally be reached Monday through Friday from 8:00 A.M. to 5:30 P.M. alternating Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathy Matecki can be reached on (703) 308-2688. The fax phone numbers are (703) 308-0552 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

SK

2/21/03

KATHY MATECKI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600